World Leader •In-Rack• Audio & Video Monitoring

January 29, 2004

WOHLER VMQ-SDI

SDI Audio Monitor with 4 Simultaneous Discrete Channels

The VMQ-SDI audio monitor from Wohler Technologies offers voice quality confidence monitoring of up to 4 SDI channels simultaneously (all 4 channels from SDI group one), as well as offering 4 balanced analog outputs demuxed from the SDI input and a reclocked SDI output. The VMQ-SDI only requires a compact 1U of rackspace and is available at a very cost effective price.

Because each channel has its own dedicated power amplifier and speaker, the audio sources remain completely separate from input to output. When listening within "Ultra Near Field" distances of 1 to 3 feet, these discrete speaker outputs provide enhanced source distinction when compared to designs with four inputs mixed into a single output.

Each channel has an LED which illuminates when a signal is present at the input allowing the operator to easily determine at a glance which channels are currently active, very helpful when quick volume adjustments are required. Separate mute buttons are provided for each channel; these together with an LED that indicates channel muting allow an operator to quickly mute one or more channels. A stereo headphone jack has channels 1 and 2 summed on the left side, and channels 3 and 4 on the right side.

The VMQ-SDI is completely magnetically shielded to allow interference-free operation immediately adjacent to all CRT video monitors. The lighter weight and shallower-depth chassis compared to similar-type units, make it ideal for use in portable and mobile vehicle applications.

Features:

Monitoring of Four Discrete Audio Channels in One Unit
Only One Rack Space High
Powerful 94dB SPL at 2 feet (0.6m)
1 SDI Input (All 4 Channels of Group One)
1 Reclocked SDI Output
Converted Balanced Analog Output Demuxed from SDI Group One
Signal Present LED on each Channel Input
Mute Button and LED for each Channel
Thorough Magnetic Shielding for Placement next to Video Monitors
Headphone Jack, Mutes Speakers
Blowout-Proof Speakers
Lightweight and Shallow-Depth Chassis
Internal Universal AC Mains Power Supply
Quick and Simple Installation

Also Available, an Analog Version (VMQ-4) and an AES/EBU Version (VMQ-2D)

Wohler

Audio Monitoring | Level Metering | Alarm Systems | Video Monitoring

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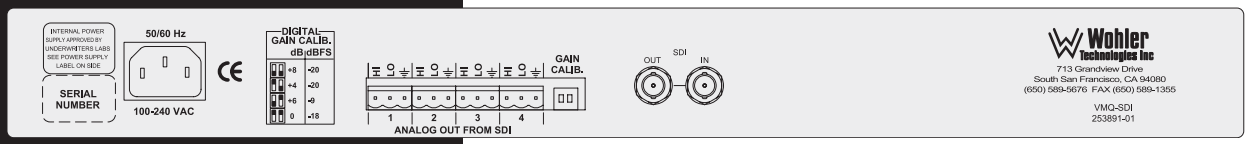
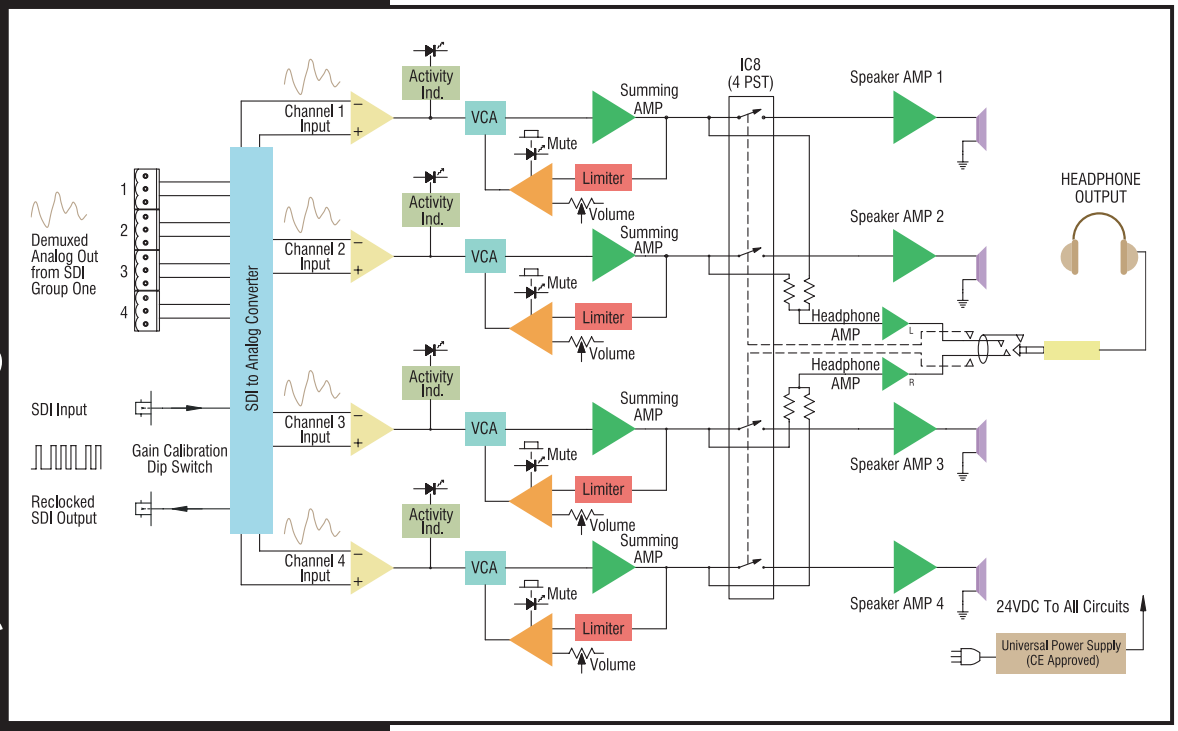
SDI Audio Monitor with 4 Simultaneous Discrete Channels

Rear Panel:



System Diagram:



Specifications:

Input	1 SDI input, BNC connector
Output	1 reclocked SDIoutput, BNC connector. 4 balanced analog outputs from SDI Group 1, phoenix connectors
SDI input termination	75 Ohms
Hum and noise	better than -70 dB below full output
Acoustic frequency response	300 Hz to 16 kHz (± 9dB)
Peak acoustic output @ 2 feet	94dB SPL
Electrical distortion	<0.2% at any level below limit threshold
Magnetic shielding	<1 gauss any adjacent surface
SDI input connectors	BNC
SDI output connectors	BNC
Analog output connectors	phoenix
Dimensions (HxWxD)	1.75 x 19 x 9.5” (44.5 x 483 x 241mm)
Weight	7 lbs. (3.2kg)
Power supply	100 to 240VAC, 50/60Hz universal input CE and UL approved
Power consumption	20W / 35W (avg. / max)

All specifications are subject to improvement

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